

CLAIMS

1. A deformable pad (1) for removably securing an ostomy bag to the skin of a patient consisting essentially of a plastics film bonded to an adhesive material (3); the pad having an opening (7) for receiving stomal waste, characterised in that the opening is surrounded by (i) a pliable unreinforced convex formation on a bodyside face of the pad; or (ii) a hollow frustoconical ring extending outwardly from a bodyside face of the pad.
2. A deformable pad as claimed in claim 1 wherein the adhesive material comprises a hydrocolloid composition or a hydrogel adhesive.
3. A deformable pad as claimed in claim 2 wherein the adhesive material comprises a hydrogel adhesive wherein the hydrogel adhesive comprises an adhesive water-swellaible polymer.
4. A deformable pad as claimed in claim 3 wherein the hydrogel adhesive is formed of polymeric materials which are cross-linked, either physically or chemically, for example, cross-linked polyacrylamide gels, polymers containing cross-linked polymer chains derived from styrene, isoprene, cyclopentadiene and dioctyl adipate monomers, or polyhydroxyethylmethacrylic acids.
5. A deformable pad as claimed in claim 4 wherein the adhesive material comprises a hydrocolloid composition wherein the hydrocolloid composition comprises gel-forming natural and modified polysaccharides in combination with polymers based on styrene, isoprene or isobutylene.
6. A deformable pad as claimed in any one of the preceding claims wherein the plastics film is less than 0.2mm in thickness.
7. A deformable pad as claimed in any one of the preceding claims wherein the plastics film is a woven or non-woven plastics material such as non-woven polyethylene.
8. A deformable pad as claimed in any one of the preceding claims which is of substantially uniform thickness.

9. A deformable pad as claimed in any one of the preceding claims wherein the adhesive material has incorporated therein a fabric such as a woven, knitted, or non-woven fabric.
- 5 10. A deformable pad as claimed in any one of the preceding claims wherein the side of the deformable pad opposite to the bodyside surface is bonded to a backing layer.
11. A deformable pad as claimed in claim 10 wherein the backing layer is formed of a water-vapour permeable material.
- 10 12. A deformable pad as claimed in claim 11 wherein the backing layer is formed of a non-woven or spun-bonded material comprising polyethylene.
13. A deformable pad as claimed in any one of claims 10 to 12 wherein the backing layer extends radially beyond the adhesive material.
- 15 14. A deformable pad as claimed in claim 13 wherein the backing layer is provided with an adhesive to enable it in use, to adhere to and form a seal against the skin of a patient radially outwardly of the deformable pad.
- 20 15. A deformable pad as claimed in claim 14 wherein the adhesive extends around the periphery of the backing layer and/or is interposed between the deformable pad and the backing layer to bond the adhesive material thereto.
- 25 16. A deformable pad as claimed in any one of claims 10 to 15 wherein the backing layer is secured to an ostomy appliance such as an ostomy bag.
17. A deformable pad as claimed in claim 16 wherein the ostomy bag is secured by adhesive bonding or welding, e.g. rf welding.
- 30 18. A deformable pad as claimed in any one of the preceding claims wherein the bodyside surface of the adhesive material is covered or coverable with a release liner.
19. A deformable pad as claimed in claim 18 wherein the release liner is made of a moulded

plastics film, such as styrene, polyethylene, a polyester such as PET or PVC, e.g. high density or medium density PVC.

- 5
20. A deformable pad as claimed in claim 18 or claim 19 wherein the liner is coated with a silicone on one or both sides.
21. A deformable pad as claimed in any one of claims 18 to 20 wherein the release liner conforms to the shape of the bodyside surface of the adhesive material.
- 10
22. A deformable pad as claimed in claim 21 wherein the release liner is pre-formed e.g. by vacuum forming.
23. A deformable pad according to claim 22 wherein the release liner is formed, eg by vacuum forming, together with the plastics film and the adhesive layer.
- 15
24. A deformable pad according to claim 1, the deformable pad consisting essentially of a plastics film bonded to an adhesive material; the adhesive material being covered by a release layer, the deformable pad having means defining an opening for receiving stomal waste, the means defining said opening being surrounded by a pliable unreinforced convex formation on a bodyside face of the pad; the deformable pad having been formed by moulding (eg by vacuuming forming) a laminate comprising the plastics film, adhesive material and release liner.
- 20
25. An ostomy bag comprising a deformable pad for removably securing the bag to the skin of a patient about a stomal opening, the deformable pad being as claimed in any one of claims 1 to 24.
- 25
26. An ostomy bag as claimed in claim 25 which is either a one-piece or two-piece ostomy bag.
- 30
27. An ostomy bag as claimed in claim 26 which is a two piece ostomy bag and wherein the two-piece ostomy bag comprises a two-part coupling having bodyside and bagside elements, the deformable pad being bonded to the bodyside element.

28. A method for producing a deformable pad, as claimed in any one of claims 1 to 24, for removably securing an ostomy bag to the skin of a patient, the method comprising the steps of:-
- (a) providing a layer of plastics film, or a precursor thereof, and a layer of adhesive material;
- (b) shaping the layers of material into a required configuration; and,
- (c) bonding the layers together, where they have not already been thus bonded.
29. A method for producing a deformable pad as claimed in claim 28 wherein the precursor of the plastics film is a woven or non-woven material which forms a film on heating.
30. A method for producing a deformable pad as claimed in claim 28 or claim 29 wherein the layers are shaped and bonded together simultaneously.
31. A method for producing a deformable pad as claimed in any one of claims 28 to 29 wherein the layers are shaped and bonded by thermo-forming or vacuum-forming the layers.
32. A method for producing a deformable pad as claimed in any one of claims 28 to 31 wherein the layers are shaped and bonded with a release liner.
33. A method for producing a deformable pad as claimed in claim 32 wherein the release liner is pre-formed.
34. A method for producing a deformable pad as claimed in any one of claims 28 to 33 wherein the convex formation or frustoconical ring is formed by deforming a combination of a layer of thin plastics film and adhesive material in a suitably shaped mould.
35. A method for producing a deformable pad as claimed in claim 34 wherein the layers are moulded by thermo-forming in a one or two stage process.
36. A method for producing a deformable pad as claimed in claim 35 wherein the layers are moulded by thermo-forming in a two-stage process wherein the layers are initially cold-formed to form the required shape and then thermally treated to bond the layers together.

37. A method for producing a deformable pad as defined in any one of claims of 1 to 24, the method comprising vacuum forming a laminate of the plastics film, adhesive material and a release liner.